

Moonlight 600TVL Vandal proof Dome



Feature:

- 1/3" Sony Super HAD II CCD, Hitachi 14bit DSP
- Super High Resolution 600TVL
- Low illumination 0.00005Lux
- Aspherical 2.8-10mm Lens with Auto Iris and IR-CUT Module
- Full OSD operation Controlled via RS485 or OSD joystick inside
- Can always remain in color in low light conditions
- Dual Power DC12V/ AC24V Optional
- Vandal proof Dome

Installation:

- To prevent shock or damage to the waterproof body, tighten all the screws and cover
- Adjust the visor to prevent the lens from direct sunlight
- Do not directly touch the front glass. To clean the dust, wipe with soft cloth with alcohol.
- Don't install it in the place where dithering and shake often
- Don't install it in the place where temperature is above 50°C or below -20°C
- Video line tie-in and DC tie-in must be avoided to touch water.
- If abnormal, please power off and contact the manufacturer

Note: Non-regulated power supply may cause camera damaged.

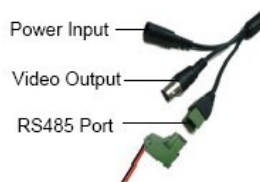
Technical Specifications:

Model No.	IV-MS6860VPA
Video System	NTSC/ PAL System
Sensor	1/3" Sony Super HAD II CCD Hitachi 14bit DSP
Pixel	NTSC: 768H*494V; PAL: 752H*582V
Resolution	600TVL(Color), 650TVL(B/W)
Lens	Aspherical 2.8-10mm Lens with Auto Iris and IR-CUT
True Day & Night	COLOR,B/W(Saturation protection Erea Select),EXT, AUTO(D/N LEVEL;LOW/MIDDLE/HIGH)
Sync.	Internal
Scanning	2:1 Interlace
Signal Noise Ratio	50dB Min.
Burst Level	0.286Vp-p
ECLIPSE	DAY/ NIGHT (BLACK/ GRAY)
3D-XDNR	OFF, ON (0~20), COLOR SUPPRESSION
SBLC	OFF/ LOW/ MID/ HIGH
D-EFFECT	MIRROR (H /V /ROTATE), FREEZE
D-ZOOM	LEVEL, LIMIT
Motion Detection	ON/ OFF (4 Programmable Zone)
Privacy Mask	ON /OFF (4 Programmable Zone)
Communication	RS485, PELCO-D Protocol
Electronic Shutter	NTSC: 1/60-1/60,000S; PAL: 1/50-1/60,000S
White Balance	ATW/ MANUAL/ PUSH
Backlight Compensation	OFF, ON (ZONE ADJUSTABLE)
Auto Gain Control	Off/ On (0~20)
Gamma Correction	0.35/ 0.4/ 0.45/ 0.65/ 0.75 Selectable
Video Output	1V p-p,75Ω
Min. Illumination	0.00005Lux
Voltage Input	DC12V (+20% -10%)
Power Current	180mA Max
Operation Temp.	-10°C~50°C
Storage Temp.	-20°C~60°C
Humidity Range	30%~80% RH
Dimension	ø128*98 mm
Net Weight	720g

External OSD Operation

-- Communication Setting of Keyboard and Camera:

RS485 OSD Settings



Mini Keyboard

The Camera has built-in Pelco-D Protocol. It can be connected and controlled by the keypad or DVR. Please note to press key "SAVE" to operate your changes on OSD MENU before exit.

How to connect in MINI keypad**Step 1:**

Power up the camera and keypad, connect camera and keypad in RS485 port.

Cauton: RS485 has Negative and Positive port, please connect properly.

Otherwise the connection between keypad and camera will be failed.

Step 2:

Select the same protocol, baud rate and camera ID in both keypad/DVR and camera.

Shift+1: Select Protocol (Pelco-D for this camera)

Shift+2: Select baud rate (2400bps for this camera)

(Press LEFT/ RIGHT to select optional items, ENTER to confirm.)

Camera ID: Input the camera ID directly, ENTER to confirm.

Step 3:

After all the settings done properly, the keypad shall be able to control the camera.

Press [Menu] to enter into the OSD Menu.

Cable OSD Settings



UP: OSD Option Upward

LEFT: OSD Option Leftward

ENTER: OSD Option Enter

RIGHT: OSD Option Rightward

DOWN: OSD Option Downward

VIDEO: Second Video

MENU OPERATION:

MENU		MENU	
LENS	DC	LENS.....DC/ESC	
WHITE BAL	ATW	WHITE BAL.....ATW/PUSH/USER2/USER1	
WDR	WDRANTI CR/MANUAL/PUSH LOCK	
DNR	2DNR	WDR.....WDR/BLC/HLC/OFF	
DAY/NIGHT	AUTO	BACKLIGHT.....OFF/ON	
IMAGE ADJ	+	DNR.....OFF/3DNR/2DNR	
GENERAL	+	DAY/NIGHT.....AUTO/COLOR/EXIT1/EXIT2/IRED/BW	
EXIT	SAVE ALL	IMAGE ADJ	
		GENERAL	
		RETURN.....SAVE ALL/NOT SAVE	

DC		DC	
BRIGHTNESS	14	BRIGHTNESS	
AGC	OFF	AGC.....0~20	
FLICKERNESS	X2	FLICKERNESS.....OFF/ON	
DSS	1/50	SHUTTER.....1/50~1/10K	
SHUTTER		DSS.....OFF/X2~X512	
RETURN			

ESC		ESC	
BRIGHTNESS	14	BRIGHTNESS	
AGC	OFF	AGC.....0~20	
FLICKERNESS	X2	FLICKERNESS.....OFF/ON	
DSS		DSS.....OFF/X2~X512	
RETURN			

WDR		WDR	
MODE	WDR	MODE.....WDR	
BRIGHTNESS	110	BRIGHTNESS.....0~255	
CONTRAST	MID	CONTRAST.....MID/MID-HIGH/HIGH/LOW/MID-LOW	
RETURN			

2D-DNR	MID	
LEVEL		
RETURN		

DAY/NI(AUTO)	3 SEC	
DELAY CNT	MID	
D/N LEVEL		
RETURN		

DAY/NI(IRED)	AUTO	
AREA	3 SEC	
DELAY CNT	7	
DAY→NIGHT	35	
NIGHT→DAY		
BRIGHTNESS		
DWDR		
CONTRAST		
RETURN		

IMAGE ADJ	+	
IMAGE	+	
D-EFFECT	+	
MOTION	+	
PRIVACY	+	
COLOR GAIN	+	
RETURN		

IMAGE		
SHARPNESS	8	
GAMMA	0.55	
HR MODE	X3	
CONTRAST	32	
RETURN		

D-EFFECT	OFF	
DIS	OFF	
D-ZOOM	OFF	
MIRROR	OFF	
FREEZE	OFF	
NEGA/POSI	POSI	
RETURN		

MOTION	1/4	
AREA	OFF	
DISPLAY		
DETECT AREA		
SENSITIVITY	8	
TOP	1	
BOTTOM	7	
LEFT	1	
RIGHT	11	
RETURN		

PRIVACY	1/15	
AREA	OFF	
DISPLAY		
POSITION		
COLOR	WHITE	
TRANSP		
MOSAIC		
RETURN		

GENERAL	1	
CAM ID	OFF	
ID DISPLAY	OFF	
CAM TITLE	OFF	
LANGUAGE	ENG	
SYNC	INT	
BAUDRATE	9600 BPS	
VERSION	P1.91H	
FACTORY RESET		
RETURN		

2D-DNR
LEVEL.....AUTO/LOW/MID/HIGH
RETURN

DAY/NIGHT(AUTO)
DELAY CNT0~15 SEC
D/N LEVEL.....LOW/MID/HIGH
RETURN

DAY/NIGHT(IRED)
AREA AUTO/MANUAL
DELAY CNT.....0~15 SEC
DAY→NIGHT.....0~255
NIGHT→DAY.....0~255
BRIGHTNESS
DWDR
CONTRAST
RETURN

IMAGE
SHARPNESS.....0~15
GAMMA.....0.38~0.83
HRMODE.....OFF/X1~X7
CONTRAST.....0~63
RETURN

D-EFFECT
DIS.....OFF/ON
D-ZOOM.....OFF/X2~X16
MIRROR.....OFF/V-FLIP/H-FLIP/HV-FLIP
FREEZE.....OFF/ON
NEGA/POSI.....POSI/NEGA
RETURN

MOTION
AREA1/4~4/4
DISPLAY.....OFF/ON
DETECT AREA
SENSITIVITY
TOP.....0~15
BOTTOM.....1~16
LEFT.....0~23
RIGHT.....1~24
RETURN

PRIVACY
AREA.....1/15~15/15
DISPLAY.....OFF/ON
POSITION
COLOR.....WHITE/YELLOW/GREEN/BLUE/RED/
BLACK/GRAY optional
TRANSP
MOSAIC
RETURN

GENERAL
CAM ID.....0~255 optional
ID DISPLAY.....OFF/ON
CAM TITLE.....OFF/ON
LANGUAGE.....Eng/Chinese/Japanese/German/French/Russian/
Portuguese/Spanish/Korean
SYNC.....INT
BAUDRATE.....2400~115200 BPS optional
VERSION.....P1.21C
FACTORY RESET